

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/003228

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A41D13/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A41D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 338 595 A (LI WU-SHYONG) 16 August 1994 (1994-08-16) column 2, line 66 – column 5, line 6; figures 1,2 -----	1-13
A	US 6 110 558 A (BILLINGSLEY BRITTON G ET AL) 29 August 2000 (2000-08-29) column 4, line 1 – column 7, line 58; figures 1,2 -----	1-13
A	US 2002/037364 A1 (FLEMING ROBERT J) 28 March 2002 (2002-03-28) column 3, paragraph 38 – column 6, paragraph 60; figures 1,2 ----- -/-	1-13

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the International search

27 July 2004

Date of mailing of the International search report

04/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Herry-Martin, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/003228

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 682 852 A (WEBER VICTOR) 28 July 1987 (1987-07-28) cited in the application column 4, line 28 - column 10, line 27; figures 2-10 -----	1
A	WO 02/089338 A (RIEZLER MANFRED ; INTEC HOLDING GMBH (DE); BNC S A DE C V (MX); MARTIN) 7 November 2002 (2002-11-07) cited in the application page 15, line 26 - page 19, line 12 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/003228

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 5338595	A	16-08-1994	US 5451447 A AU 649781 B2 AU 1129192 A CA 2061708 A1 DE 69209137 D1 DE 69209137 T2 EP 0512668 A2 ES 2084931 T3 JP 3300400 B2 JP 5111406 A MX 9201636 A1		19-09-1995 02-06-1994 12-11-1992 09-11-1992 25-04-1996 28-11-1996 11-11-1992 16-05-1996 08-07-2002 07-05-1993 01-11-1992
US 6110558	A	29-08-2000	US 5738746 A AU 2198595 A CA 2184272 A1 CN 1144462 A ,B DE 69505509 D1 DE 69505509 T2 EP 0754002 A1 ES 2122576 T3 JP 9511286 T WO 9526648 A2		14-04-1998 23-10-1995 12-10-1995 05-03-1997 26-11-1998 08-04-1999 22-01-1997 16-12-1998 11-11-1997 12-10-1995
US 2002037364	A1	28-03-2002	US 6306459 B1 AU 1599300 A CA 2375420 A1 CN 1352749 T EP 1185893 A1 JP 2003502707 T WO 0079315 A1		23-10-2001 09-01-2001 28-12-2000 05-06-2002 13-03-2002 21-01-2003 28-12-2000
US 4682852	A	28-07-1987	JP 61063801 A		02-04-1986
WO 02089338	A	07-11-2002	DE 10121126 A1 EP 1405278 A2 WO 02089338 A2 US 2002160786 A1		07-11-2002 07-04-2004 07-11-2002 31-10-2002